

CATALOG DOCUMENTATION  
EMAP SURFACE WATERS PROGRAM LEVEL DATABASE  
1991-1994 NORTHEAST LAKES DATA  
LAKE ZOOPLANKTON NAMES DATA

TABLE OF CONTENTS

1. DATA SET IDENTIFICATION
2. INVESTIGATOR INFORMATION
3. DATA SET ABSTRACT
4. OBJECTIVES AND INTRODUCTION
5. DATA ACQUISITION AND PROCESSING METHODS
6. DATA MANIPULATIONS
7. DATA DESCRIPTION
8. GEOGRAPHIC AND SPATIAL INFORMATION
9. QUALITY CONTROL / QUALITY ASSURANCE
10. DATA ACCESS
11. REFERENCES
12. TABLE OF ACRONYMS
13. PERSONNEL INFORMATION

1. DATA SET IDENTIFICATION

1.1 Title of Catalog Document  
EMAP Surface Waters Lake Database  
1991-1994 Northeast Lakes  
Lake Zooplankton Names Data

1.2 Authors of the Catalog Entry  
U.S. EPA NHEERL Western Ecology Division  
Corvallis, OR

1.3 Catalog Revision Date  
November 1996

1.4 Data Set Name  
Z00NAM

1.5 Task Group  
Surface Waters

1.6 Data Set Identification Code  
0115

## 1.7 Version

001

## 1.8 Requested Acknowledgment

These data were produced as part of the U.S. EPA's Environmental Monitoring and Assessment Program (EMAP). If you publish these data or use them for analyses in publications, EPA requires a standard statement for work it has supported:

"Although the data described in this article have been funded wholly or in part by the U.S. Environmental Protection Agency through its EMAP Surface Waters Program, it has not been subjected to Agency review, and therefore does not necessarily reflect the views of the Agency and no official endorsement of the conclusions should be inferred."

## 2. INVESTIGATOR INFORMATION

### 2.1 Principal Investigator

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### 2.2 Investigation Participant - Sample Collection

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Harvard University  
New York State Museum of Natural History  
Oregon State University  
SUNY Syracuse College of Environmental Sciences and Forestry  
Queens University  
University of Maine  
U.S. Fish and Wildlife Service  
U.S. Environmental Protection Agency  
Office of Research and Development  
Regions 1 and 2

## 3. DATA SET ABSTRACT

### 3.1 Abstract of the Data Set

The primary function of the lake zooplankton data are to provide a snapshot of the zooplankton assemblage present in the lake at the time of sampling. The zooplankton community represents an integral component of lake biological integrity and represents a snapshot of a publicly visible reflection of lake quality.

### 3.2 Keywords for the Data Set

Zooplankton assemblage, Zooplankton community, Zooplankton species identification

## 4. OBJECTIVES AND INTRODUCTION

### 4.1 Program Objective

The Environmental Monitoring and Assessment Program (EMAP) was designed to periodically estimate the status and trends of the Nation's ecological resources on a regional basis. EMAP provides a strategy to identify and bound the extent, magnitude and location of environmental degradation and improvement on a regional scale based on a probability-based statistical survey design.

## 4.2 Data Set Objective

This data set is part of a demonstration project to evaluate approaches to monitoring lakes in EMAP. The data set contains the results of a single mid-lake vertical tow of the zooplankton assemblage taken during mid-summer.

## 4.3 Data Set Background Discussion

The zooplankton community within a lake is an integral component of lake biological integrity. This data set contains a list of species and species code of each species collected at each lake sampled.

## 4.4 Summary of Data Set Parameters

This dataset is used to link species codes in the zooplankton count data with the species name of the potential zooplankton species collected.

# 5. DATA ACQUISITION AND PROCESSING METHODS

## 5.1 Data Acquisition

### 5.1.1 Sampling Objective

To obtain a sample of the zooplankton assemblage within a lake during a two month sampling window from July through mid-September.

### 5.1.2 Sample Collection Methods Summary

The assemblage was sampled using a bongo net with coarse (202 micron) and fine (48 micron) mesh nets towed vertically from near the bottom of the lake to the surface at the deepest point within the lake.

### 5.1.3 Sampling Start Date

July 1991

### 5.1.4 Sampling End Date

September 1994

### 5.1.5 Platform

Sampling was conducted from small boats.

### 5.1.6 Sampling Gear

Bongo net with coarse (202 micron) and fine (48 micron) mesh nets.

### 5.1.7 Manufacturer of Instruments

NA

### 5.1.8 Key Variables

NA

### 5.1.9 Sampling Method Calibration

NA

### 5.1.10 Sample Collection Quality Control

See Baker et al. (1997).

### 5.1.11 Sample Collection Method Reference

Baker, J.R., G.D. Merritt, and D.W. Sutton (eds.). 1997. Environmental Monitoring and Assessment Program - Surface Waters: Field Operations Manual for Lakes.

Chaloud, D.J. and D.V. Peck. 1994. Environmental Monitoring and Assessment Program - Surface Waters: Integrated Quality Assurance Project Plan for the Surface Waters Resource Group.

5.1.12 Sample Collection Method Deviations  
NA

5.2 Data Preparation and Sample Processing

5.2.1 Sample Processing Objective

See Baker et al. (1997) and Chaloud and Peck (1994).

5.2.2 Sample Processing Methods Summary

See Baker et al. (1997) and Chaloud and Peck (1994).

5.2.3 Sample Processing Method Calibration

See Baker et al. (1997) and Chaloud and Peck (1994).

5.2.4 Sample Processing Quality Control

See Baker et al. (1997) and Chaloud and Peck (1994).

5.2.5 Sample Processing Method Reference

See Baker et al. (1997) and Chaloud and Peck (1994).

6. DATA MANIPULATIONS

6.1 Name of New or Modified Values

None.

6.2 Data Manipulation Description

See Chaloud and Peck (1994).

7. DATA DESCRIPTION

7.1 Description of Parameters

#	Parameter Data				Parameter Label
	Name	Type	Len	Format	
2	SPPNAME	Char	50		Zooplankton Species Name
1	TAXACODE	Char	8		EMAP code for zooplankton taxa

7.1.1 Precision to Which Values are Reported

NA

7.1.2 Minimum Value in Data Set by Parameter

NA

7.1.3 Maximum Value in Data Set by Parameter

NA

7.2 Data Record Example

7.2.1 Column Names for Example Records

SPPNAME TAXACODE

#### 7.2.2 Example Data Records

"Trichocerca myersi", "TRICMYE"

"Trichocerca insignis", "TRICOIN"

"Trichocerca sp.", "TRICOSP"

"Trichocerca platessa", "TRICPLA"

"Trichocerca porcellus\_", "TRICPOR"

### 8. GEOGRAPHIC AND SPATIAL INFORMATION

#### 8.1 Minimum Longitude

NA

#### 8.2 Maximum Longitude

NA

#### 8.3 Minimum Latitude

NA

#### 8.4 Maximum Latitude

NA

#### 8.5 Name of Area or Region

Northeast: EPA Regions I and II which includes Connecticut, Massachusetts, Maine, New Hampshire, New Jersey, New York, Vermont, Rhode Island

### 9. QUALITY CONTROL / QUALITY ASSURANCE

#### 9.1 Data Quality Objectives

See Chaloud and Peck (1994)

#### 9.2 Quality Assurance Procedures

See Chaloud and Peck (1994)

#### 9.3 Unassessed Errors

NA

### 10. DATA ACCESS

#### 10.1 Data Access Procedures

#### 10.2 Data Access Restrictions

#### 10.3 Data Access Contact Persons

#### 10.4 Data Set Format

#### 10.5 Information Concerning Anonymous FTP

#### 10.6 Information Concerning Gopher and WWW

#### 10.7 EMAP CD-ROM Containing the Data

### 11. REFERENCES

Baker, J.R., G.D. Merritt, and D.W. Sutton (eds.). 1997. Environmental Monitoring and Assessment Program - Surface Waters: Field Operations Manual for Lakes. EPA/620/R-97/001. U.S. Environmental Protection Agency. Office of Research and Development. Washington, D.C.

Chaloud, D.J. and D.V. Peck. 1994. Environmental Monitoring and Assessment Program - Surface Waters: Integrated Quality Assurance Project Plan for the Surface Waters Resource Group. U.S. Environmental Protection Agency. Office of Research and Development.

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